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ISOLATION OF DNA FRAGMENT

Abstract:

PURPOSE: Pinholes are bored on a dialysis tube containing a buffer solution in which a specific DNA segment is included, and the buffer solution is recovered by centrifugation and subjected to column adsorption at room temperature to isolate the DNA segment free from contaminants.

CONSTITUTION: A DNA is fragmented with a restriction enzyme in a prescribed position and the fragment is added to agarose gel, subjected to gel electrophoresis to obtain the desired band. The band is cut out, placed together with a buffer solution in a dialysis tube made of, e.g., cellulose. Then, an electric potential is applied to the tube to elute the DNA segment into the buffer solution. Pinholes are bored on the tube and tube is centrifuged to effect separation into the gel and the buffer solution. The buffer solution is passed through a column at room temperature to remove the contaminants whereby the objective pure DNA segment is obtained.